SATA optical drive installation

This document describes how to install a standard 5.25-inch, half-height Serial ATA (SATA) optical drive in your HP workstation.

Kit contents

- 13.335 cm (5.25 inch), half-height SATA optical drive
- SATA interface cables
- Four M3 guide screws
- Optional application software CD (based on optical drive)
- Warranty information

Tools required

- T-15 Torx screwdriver
- Flat-blade screwdriver

Before you begin

To view QuickSpecs and determine the compatibility of this product with your HP workstation, see http://www.hp.com/go/productbulletin.
Warnings and cautions

⚠️ **WARNING!** Any surface or area of the equipment marked with this symbol indicates the presence of an electrical shock hazard. To reduce the risk of injury from electrical shock, do not open any enclosed area marked with this symbol.

⚠️ **WARNING!** To reduce the risk of electric shock or damage to your equipment:
— Do not disable the power cord grounding plug. The grounding plug is an important safety feature.
— Plug the power cord in a grounded (earthed) outlet that is easily accessible at all times.
— Disconnect power from the equipment by unplugging the power cord from the electrical outlet.

⚠️ **WARNING!** Any surface or area of the equipment marked with this symbol indicates the presence of a hot surface or hot component. If this surface is contacted, the potential for injury exists. To reduce the risk of injury from a hot component, enable the surface to cool before touching.

⚠️ **WARNING!** If a product is shipped in packaging marked with this symbol, the product must always be lifted by two persons to avoid personal injury due to product weight.

⚠️ **WARNING!** To reduce the risk of serious injury, read the Safety & Comfort Guide. It describes proper workstation setup, posture, health, and work habits for computer users, and provides important electrical and mechanical safety information. This guide is located at [http://www.hp.com/ergo](http://www.hp.com/ergo) and on the documentation CD (if one is included with the product).

⚠️ **CAUTION:** Static electricity can damage the electronic components of the workstation. Before beginning these procedures, be sure you discharge static electricity by briefly touching a grounded metal object.

⚠️ **CAUTION:** To prevent damage to the workstation, observe the following Electrostatic Discharge (ESD) precautions while performing the system parts removal and replacement procedures:
— Work on a static-free mat.
— Wear a static strap to ensure that any accumulated electrostatic charge is discharged from your body to the ground.
— Create a common ground for the equipment you are working on by connecting the static-free mat, static strap, and peripheral units to that piece of equipment.

⚠️ **NOTE:** HP accessories are for use in HP Workstation products. They have been extensively tested for reliability and are manufactured to high quality standards.
Preparing for component installation

NOTE: Workstation models vary. All illustrations are examples only.

Accessing the internal components of the workstation

1. If you need help preparing the workstation for this installation, consult the removal and replacement procedures in the service guide for your workstation at http://www.hp.com/support/workstation_manuals.

NOTE: For the HP Workstation series, these procedures are also available in the User Guide on the Documentation and Diagnostics CD that shipped with your workstation.

2. Power down the workstation, and then disconnect the power cord.

3. Power down all external devices, and then disconnect them from the workstation.

4. Remove the side access panel.

Removing components

1. If installing in an HP Workstation, remove the airflow guide to enable access to the optical bays.

2. If present, remove the card support to enable access to the system board connectors.

3. Remove the front bezel if applicable.

NOTE: The front bezel does not need to be removed on HP Z600 and HP Z800 Workstations.

Installing the drive

CAUTION: There might be drive length limitations for some drive bays in certain workstations. Ensure that the optical device does not come in contact with the system board or crush diskette drive cables.

1. Select the highest available optical bay position on the workstation that fits the length of the optical device being installed.

NOTE: The HP SATA Blu-ray Writer does not fit in all removable drive bays. It is longer than most optical drives. Choose the optical bay for the Blu-ray drive which best fits your workstation configuration.

2. Remove the filler tray or the flat bezel blank from the front bezel of the appropriate drive bay. The bezel blank is the small panel that covers the drive bay opening when a drive is not installed in the bay.

3. Remove the EMI filler (if one is installed). The EMI filter is a thin metal piece blocking the bay opening that reduces electromagnetic emissions.
4. If your optical drive requires guide screws, use the four M3 guide screws provided as part of the installation kit. Install two M3 guide screws into each side of the drive using a T-15 Torx screwdriver.

**NOTE:** Some workstations, such as HP Z600, Z800, xw6600, xw8600, and xw9400 Workstations do not require guide screws.

5. Install the optical drive.
   a. On some workstation models, you will need to lift the spring-loaded latch on the left side of the optical drive cage while sliding the new drive in place.
   b. Slide the optical drive completely into a drive bay so that the drive is secured.

⚠️ **CAUTION:** Failure to ensure that the optical drive has been properly secured may cause damage to the drive when moving the workstation. For specific instructions on securing an optional drive, see the service guide for your workstation at [http://www.hp.com/support/workstation_manuals](http://www.hp.com/support/workstation_manuals).

6. Connect the cables.

⚠️ **CAUTION:** Connect the power cable before connecting the data cable to reduce the risk of damage to the drive due to Electrostatic Discharge (ESD).

   a. Connect the workstation optical power supply power cable to the drive.
   b. Connect the SATA interface cable between the drive and the next available SATA connector on the workstation system board.

**NOTE:** To locate system board connectors, see the service label on the side access panel.

**NOTE:** Select an interface cable from the kit that best fits the configuration of your HP workstation. Choose a cable with two straight connectors if possible. If you are using an interface cable with a right angle connector, avoid interference with plug-in cards by attaching the straight connector into the system board and the right angle connector into the device.
7. Reassemble the workstation.
   a. Reinstall the front bezel, if applicable.
   b. Reinstall the expansion card support, if applicable.
   c. Reinstall the airflow guide, if applicable.
   d. Reinstall the side access panel.
   e. Reconnect power to the workstation and all external devices.
   f. Restore power to the workstation and all external devices.

8. For information on operating your drive and enabling digital audio:
   ● For the HP Workstation series, see the User Guide for your workstation at http://www.hp.com/support/workstation_manuals.
   ● For the HP xw Workstation series, see the Setup and Troubleshooting Guide for your workstation at http://www.hp.com/support/workstation_manuals.

9. For configuration rules and assumptions when installing both SATA and PATA optical drives in the same workstation see:
   ● For the HP xw Workstation series, see the Setup and Troubleshooting Guide for your workstation at http://www.hp.com/support/workstation_manuals.

   **NOTE:** HP xw4600 Workstations do not support PATA optical drives.

   ● HP Workstation series do not support PATA optical drives.

10. If an application software CD to enable features for your device was included with your kit, then insert it and follow the on-screen directions to load the software.

11. At the time of component installation, look for device software, firmware and driver updates, designated for your workstation model and operating system. Obtain updates from http://www.hp.com/go/workstationsupport.
Notice for Blu-ray optical drives

If you installed a Blu-ray optical drive, note the following:

Blu-ray movie playback

As Blu-ray is a new format containing new technologies, certain disc, digital connection, compatibility and/or performance issues may arise, and do not constitute defects in the product. Flawless playback on all systems is not guaranteed. In order for some Blu-ray titles to play, they may require a DVI or HDMI digital connection and your display may require HDCP support. HD-DVD movies cannot be played on this workstation.

Blu-ray movie playback compatibility and update

Playing back Blu-ray HDCP (High-bandwidth Digital Content Protection) content such as commercially distributed Blu-ray HD movies requires a fully HDCP compliant path on your computer. The HDCP technology checks compliance of each component in the path from the content on the Blu-ray disc all the way to the display monitor, including but not limited to graphic cards and monitor adapters.

The HP Z400, Z600 and Z800 Workstations have been designed with this in mind; nearly all configurations with currently available HP Professional Displays are compliant. Older HP xw4600 and xw9400 Workstation configurations may not have fully compliant paths based on the installed graphics card and display monitor; HP recommends confirming separately that you have a fully compliant system if commercial content playback is a requirement for your use. HDCP compatibility of your graphics card and monitor can be determined by checking the QuickSpecs at http://www.hp.com/go/productbulletin.

For the best HDCP performance, HP recommends that you install the latest updates:

1. Blu-ray player firmware
2. Playback application patches
3. Graphics firmware and drivers

Updates are located on the support web site for your specific product at http://www.hp.com/support/workstations.

Regulatory notices

This product has been tested and found to comply with the limits for a class B digital device of the FCC Rules. Refer to the Safety and Regulatory Information guide on the documentation CD that came with your workstation for additional regulatory information governing this product.

Japanese 日本語

This document is available in Japanese. See http://www.hp.com/support/workstation_manuals, then select your workstation product and select Japanese from the drop down Manual Language menu.